TARE, INC.

Consulting Engineers

2242 Highway 70 East P.O. Box 846 Crossville, TN 38557 Telephone 931/484-7543 Fax 931/484-7544

October 15, 2013

Ms. Sharon Kington TN Dept. of Environment and Conservation Cookeville Environmental Field Office 1221 South Willow Avenue Cookeville, TN 38506

Subject:

American Sand Company, LLC.

Site Inspection Letter

50 Acre Tract NPDES No.TN0066231

Putnam County, Tennessee

Ms. Kington,

To follow are responses to your Site Inspection letter dated September 18, 2013 for the subject sand quarry.

- BMPs have been repaired and adjacent areas have been topsoiled, seeded and mulched to stabilize.
 The earthen berms have been repaired and are currently being topsoiled, seeded and mulched.
- A temporary rip-rap filter berm was constructed at the Basin 001 location to control sediment during the construction of the basin. Final basin construction is currently underway and completion is expected within the next two weeks weather permitting.
- 3. The existing Basin at the 003 location has been repaired and the slag material has been removed from the site. The spillway has been relocated to the western end of the pond to prevent short circuiting. The spillway has been lined with limestone rip-rap. Sediment has been removed and the basin is in good working order.
- 4. Basin 004 is currently under construction. This basin is being constructed as an incised basin with only the stage and freeboard of the spillway being retained by the embankment. The embankment is being constructed with the best available on site material. In addition the embankment width has been increased by approximately 50% to add additional stability. Rip-Rap will be installed in the finished spillway and the embankment will be topsoiled, seeded and mulched upon completion.
- 5. The ARAP roadway crossing has been repaired and additional rip-rap armoring has been installed.
- 6. All of the current disturbance is being directed to sediment control structures via ditches and or earthen berms. The existing berms have been topsoiled seeded and mulched to stabilize.
- 7. The required analysis of the haul road has been included in the current Quarterly Monitoring Reports and a copy included with this response.

Please contact me if you have any questions or comments.

Sincerely,

TARE, INC

Damell M. Hall

Cc: Todd Claibome, American Sand Company, LLC., Bryan Epperson TDEC



Facility Name

Copper, Total

Cvanide, Total

Fluoride

Iron, Total

Lead, Total

0.0636

0.064

1.8

5.0

0.156

Department of Environment and Conservation - Division of Water Pollution Control Tennessee Multi-Sector General Permit (TMSP)

ANNUAL STORM WATER MONITORING REPORT

TMSP Number:

2.0

0.2385

0.032

200

0.395

| | 4merican | Jana Co. | | 1 22 (22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | | | | | |
|---|-------------------------|--------------------------------|----------------------------|--|--------------------------------|--|--|--|--|
| Contact Person: | Tonya Bil | Phone Number: | 931-839-2241 | | | | | | |
| This report is submitted f | or the following calc | endar year (e.g. 2002) | : | Outfall Number: | 50 Acres Rd. loed | | | | |
| List all TMSP sectors wh | | | | Sample Date: | 09/21/13 | | | | |
| Low Concentration Waiver (Note 3): list all parameters for which the facility is certifying that there has not been a significant change in industrial activity or the pollution prevention measures in the area of the facility that drains to the outfall for which sampling was waived: | | | | | | | | | |
| In the spaces below, provide the results of storm water monitoring for the designated outfall. The parameters for which monitoring must be conducted depend on which industry sector(s) of the TMSP applies to the discharge. Look up your sector(s) in the permit and analyze for the parameters which apply. If parameter is not listed below, submit additional sheets. All samples should be collected by grab technique. | | | | | | | | | |
| Parameter | Cut-off Conc. (mg/L) | Annual Sample Result (mg/L) | Parameter (continued) | Cut-off Cone. (mg/L) | Annual Sample Result (mg/L) | | | | |
| Aluminum, Total | 0.75 | | Magnesium, Total | 0.0636 | | | | | |
| Ammonia | 4.0 | | Mercury, Total | 0.0024 | BDL | | | | |
| Arsenic, Total | 0.16854 | | Nickel, Total | 2.679 | <0.019 | | | | |
| BOD, 5 -Day | 30 | | Nitrate + Nitrite Nitrogen | 0.68 | | | | | |
| Cadmium, Total | 0.0159 | 40.003 | Oil and Grease | 15 | | | | | |
| COD | 120 | | pН | 5.0-9.0 | | | | | |

I certify under penalty of law that this document and all of its attachments were prepared under my direction or my supervision in accordance with a system designed to assure qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Phosphorus, Total (as P)

Total Suspended Solids (TSS)

Selenium, Total

Silver, Total

Zinc, Total

| Printed Name and Title of Authorized Agent | Signature of Authorized Agent | Date |
|--|-------------------------------|------|

Instructions

- 1. The purpose of this form is to report storm water (SW) monitoring results under the TMSP. Only 1 sample per calendar year is required (except Sectors J &H, for more details see the TMSP at www.tdec.net/permits/tmsp.htm). Grab samples should be collected within the first 30 minutes (or as soon thereafter as practical, but not to exceed one hour) of when the runoff or snowmelt begins discharging. A separate form must be submitted for each outfall. If more than 1 sample is collected at any outfall, submit the average results of all monitoring data (for calculating average, use 1/2 of a detection level, if parameter was not detected). New facilities must conduct sampling in the year during which permit coverage was obtained and during each following year. The completed form must be submitted by March 31 of the following year, e.g. monitoring required during 2002 calendar year is due by March 31, 2003.
- 2. If the results of annual SW runoff monitoring demonstrate that the facility has exceeded the cut-off concentration(s), the permittee must inform the Division's local Environmental Assistance Center (EAC) in writing within 30 days from the time SW monitoring results were received, describing the likely cause of the exceedance(s). Furthermore, within 60 days from the time SW monitoring results were received, the facility must review its storm water pollution prevention plan (SWPPP), make any modifications to the plan which would assist in reducing runoff concentrations to less than the monitoring cut-off concentrations for that parameter, and submit to the local EAC a summary of the proposed SWPPP modifications (including a timetable for implementation).
- 3. Low Concentration Waiver When the average concentration for a pollutant calculated from monitoring data collected from the first 4 calendar years of monitoring is less than the cut-off concentration, a facility may waive monitoring requirements in the last annual monitoring period. This form should be used for certification of low concentration waiver provision.

Complete, sign and date this form before it is submitted. Keep a copy of the completed form for your records.

Submit the original of the completed and signed form to:

Enforcement and Compliance Section Division of Water Pollution Control 6th Floor L&C Annex, 401 Church Street Nashville, TN 37243-1534

SAMPLE REPORT

TTU Center for the Management, Utilitzation and Protection of Water Resources Address: Box 5033 Cookeville, TN 38505-0001 Phone 931 372-3538

Web Site: http://www.tntech.edu/wrc/

Outside Lab

| Customer | American Sand Co., LLC | Street | P. O. Box 1 | 018 | |
|--------------|------------------------|---------------------------------|-------------|-------|-------|
| Contact | | Address Monterey, TN 38574-0146 | | | |
| | TEST | Test Method | Result | Units | MDL |
| Sample No. | 50 Acres road bed | | | | |
| Collection D | ate: 9/21/2013 | | | | |
| 1314136-001 | Ag | EPA 200.7 | < 0.003 | mg/L | 0.002 |
| 1314136-001 | Cd | EPA 200.7 | <0.003 | mg/L | 0.002 |
| 1314136-001 | Cr | EPA 200.7 | <0.003 | mg/L | 0.002 |
| 1314136-001 | Cu | EPA 200.7 | <0.008 | mg/L | 0.006 |
| 1314136-001 | Fe | EPA 200.7 | 4.31 | mg/L | 0.05 |
| 1314136-001 | Ni | EPA 200.7 | <0.019 | mg/L | 0.015 |
| 1314136-001 | Pb | EPA 200.7 | <0.025 | mg/L | 0.02 |
| 1314136-001 | Se | EPA 200.7 | <0.063 | mg/L | 0.05 |
| 1314136-001 | Zn | EPA 200.7 | <0.006 | mg/L | 0.005 |

Outside Lab

Complete

1314136-001



12065 Lebanon Rd. Mt. Juliet, TN 37122 (615) 758-5858 1-800-767-5859 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

YOUR LAB OF CHOICE

REPORT OF ANALYSIS

October 02, 2013

Mr. Dan Dodson Tennessee Technological University Prescott Hall RM 233 1020 Stadium D Cookeville, TN 38505

> ESC Sample # : L659984-01 September 27, 2013

Date Received Description

Site ID : 1314136-001 Sample ID Project # :

Customer 09/21/13 00:00 Collected By Collection Date :

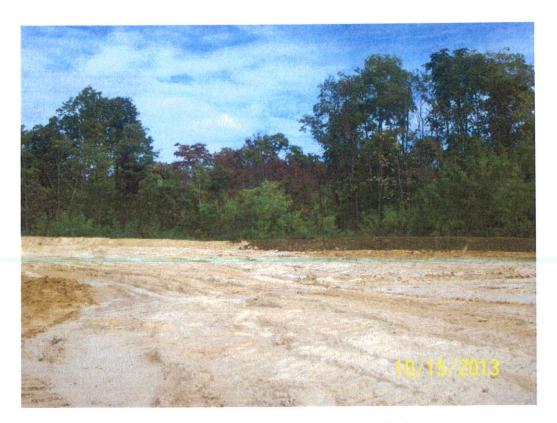
Result Units Method Date Dil. Det. Limit Parameter 10/02/13 1 \mathtt{BDL} 0.00020 mg/l245.1 Mercury

BDL - Below Detection Limit

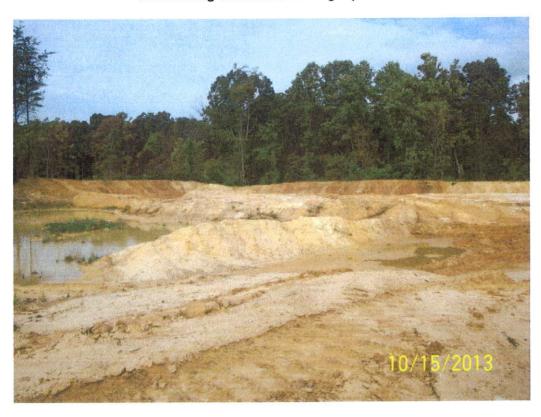
Det. Limit - Practical Quantitation Limit (PQL)

The reported analytical results relate only to the sample submitted. This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 10/02/13 17:11 Printed: 10/02/13 17:34



Berm along disturbance being topsoiled.



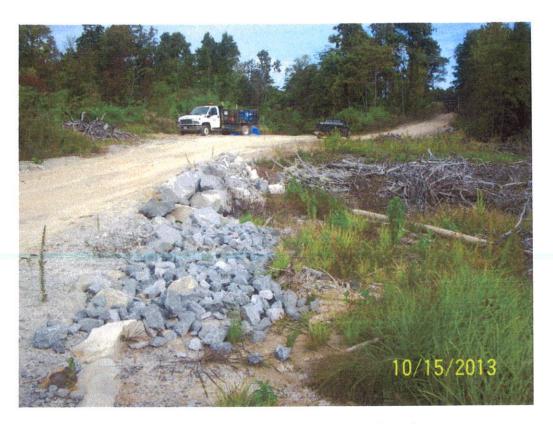
Repaired berms currently being topsoiled.



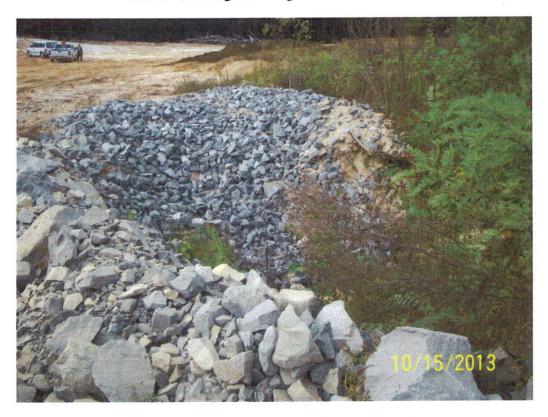
Seeding and mulch applied to the berm



Seeding and mulch applied to the berm



ARAP crossing armoring north side of road.



ARAP crossing armoring south side of road.



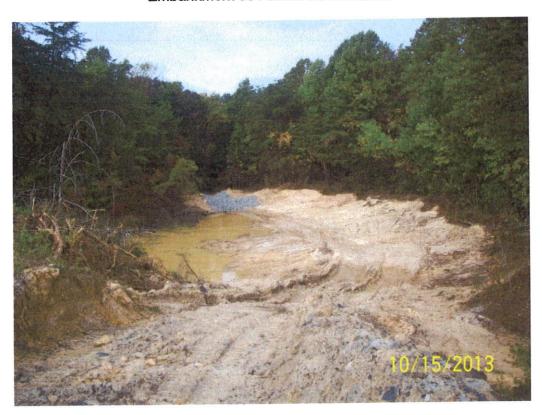
Filter fence replaced with sediment trap looking toward wetland left side of road.



Right side of haul road.



Embankment 001 under construction.



Basin 003 has been cleaned and spillway has been reconstructed.



Rip-rap filter berm north side of Rocky Point Road